

Title (en)

Rotor blade and rotor disc for a gas turbine engine with a reduced coefficient of friction at the blade and disc interface

Title (de)

Gasturbinen-schaufel und -rotorscheibe mit einem reduzierten Reibungskoeffizient an der Schaufel- und Rotorscheibe-grenzfläche

Title (fr)

Aube et disque rotorique d'une turbine à gaz ayant un coefficient de friction réduit à l'interface entre l'aube et le disque rotorique

Publication

EP 1564377 A3 20061108 (EN)

Application

EP 05250384 A 20050126

Priority

GB 0403064 A 20040212

Abstract (en)

[origin: EP1564377A2] A rotor blade, a rotor disc (24) or load bearing assembly having at least one bearing surface (22) for contact with a corresponding bearing surface (28). At least one selected area of the bearing surface (30,32) which, in operation, is an area of alternating stress greater than about 50 MPa (peak to peak), is configured to have a co-efficient of friction lower than the remainder of the bearing surface (34). The selected area (30,32) having a co-efficient of friction lower than the remainder of the bearing surface (34) may be provided by the application of a dry film lubricant, with the remaining area(s) (34) of said bearing surfaces (22) being substantially free of the said coating.

IPC 8 full level

F01D 5/30 (2006.01); **F01D 5/06** (2006.01)

CPC (source: EP GB)

F01D 5/3092 (2013.01 - EP GB); **F04D 29/34** (2013.01 - GB)

Citation (search report)

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Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

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DOCDB simple family (publication)

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DOCDB simple family (application)

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